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          University of Utah Research Foundation, USA U.S., 32 pp. Cont.-in-part of U.S. 5, 432, 155.
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                                Olivera, Baldomero M.; Cruz, Lourdes J.; Hillyard, David R.; Mcintosh, J.Michael; Santos, Ameurfina D.
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                                                                   1996:333071 CAPLUS
                                                  Conotoxin peptides
PATENT NO.
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signal sequence and the 3'-untranslated region of the genes coding for these peptides to the sequences in the α -conotain conotoxin peptides. peptides. core and is represented as Cys-Cys-Xaa-Xaa-Xaa-Cys-Xaa. The $\alpha-conotoxin-like$ peptides generally share a core sequence termed AU 699078 B2 195
PRAI US 1993-84848 19930629
US 1993-137800 19931019
WO 1994-US11927 19941019 The α -conotoxin peptides are potent inhibitors of synaptic transmission at the neuromuscular junction; these peptides α -representation are potent inhibitors of synaptic transmission at the neuromuscular junction; these peptides α -representation are potent inhibitors of synaptic transmission at the neuromuscular junction; these peptides α -representations are potent inhibitors of synaptic transmission at the neuromuscular junction; these peptides α -representations are potent inhibitors of synaptic transmission at the neuromuscular junction; these peptides α -representations are potent inhibitors of synaptic transmission at the neuromuscular junction; these peptides α -representations are proposed as α -representations. Cys-Xaa-Cys-Xaa-Xaa-Xaa-Cys. potassium or sodium channels. generally nicotinic acetylcholine receptor blockers. The invention is directed to A-lineage conotoxin peptides, which are conotoxin peptides that have strong homol. in the The A-lineage conotoxin peptides include the lpha-conotoxin peptides, the lpha-conotoxin-like peptides, and the lacktrianglerightThe lpha - conotoxin-peptides generally share a "core" sequence motif. The peptide groups within the A-lineage conotoxin peptides have diverse pharmacol. actiaty. The k-conotoxin peptides have activities against voltage-sensitie This core sequence is termed $t = \alpha 3/5$

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PRAI US 1993-137800
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ANSWER 2 OF 3 CAPLUS COPYRIGHT 2000 ACS

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Conotoxin peptides of Conus striatus

J. Michael; Santos, Ameurfina D.

1995:797288 CAPLUS DN

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signal sequence and the 3'-untranslated region of the genes coding for these peptides to the sequences in the α -conotain peptides. conotoxin peptides, WO 1994-US11927 19941019 The invention is directed to A-lineage conotoxin peptides, which areconotoxin peptides that have strong homol. in the The A-lineage conotoxin peptides include the lpha-conotoxin peptides, the lpha-conotoxin-like peptides and the κ described further below. The lpha-conotoxin peptides generally share a "core" sequence motif. This lpha

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Xaa-Xaa-Xaa-Xaa-Cys. The κ -conotoxin peptides generally have a core sequence termed the $\kappa 7/2/1/3$ core and is represented The α -conotoxin-

L11 as Cys-Cys-Xaa-Xaa-Xaa-Xaa-Xaa-Xaa-Xaa-Cys-Xaa-Xaa-Cys-Xaa-Cys-Xaa-Xaa-Xaa-Cys. sequence is termed the α3/5 core and is represented as Cys-Cys-Xaa-Xaa-Xaa-Cys-Xaa-Xaa-Xaa-Xaa-Xaa-Cys. PΥ 1995 1995 1995 1995 1997 1996 1997 1997 ANSWER 1 OF 4 CAPLUS Conotoxins having acetylcholine receptor binding properties and their usein receptors assays and pharmaceuticals ANSWER 3 OF 3 CAPLUS COPYRIGHT 2000 ACS COPYRIGHT 2000 ACS

L12 L12 Ϋ́ ANSWER 2 OF 4 CAPLUS Three-Dimensional Solution Structure of Conotoxin ψ -PIIIE, an Acetylcholine Gated Ion Channel Antagonist A Noncompetitive Peptide Inhibitor of the Nicotinic Acetylcholine Receptor from Conus purpurascens Venom ANSWER 3 OF 4 CAPLUS COPYRIGHT 2000 ACS COPYRIGHT 2000 ACS

Conotoxin peptides

L12 1995 1995 1995 1995 1997 1997 1997 1997 Conotoxins having acetylcholine receptor binding properties and their use in receptors assays and pharmaceuticals ANSWER 4 OF 4 CAPLUS COPYRIGHT 2000 ACS

L13Ad I.I. Conopeptides from Conus striatus and Conus textile by cDNA cloning ANSWER 1 OF 2 CAPLUS COPYRIGHT 2000 ACS

L13 I.I. 1995 1995 1995 1995 1997 1997 1997 1997 Conotoxins having acetylcholine receptor binding properties ANSWER 2 OF 2 CAPLUS COPYRIGHT 2000 ACS and their usein receptors assays and pharmaceuticals

L14 TI ANSWER 1 OF 11 CAPLUS COPYRIGHT 2000 ACS Structure-function relationships of the NMDA receptor antagonist peptide, conantokin-R

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ANSWER 2 OF 11
In vitro and in vivo characterization of conantokin-R,
                                        CAPLUS COPYRIGHT 2000 ACS
               a selective NMDA receptor antagonist isolated from the venom of
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the fish-hunting snail Conus radiatus

L14ANSWER 3 OF 11 CAPLUS COPYRIGHT 2000 ACS

Sequence and analysis of chromosome 2 of the plant Arabidopsis thaliana

 \mathbb{R} L14 ANSWER 4 OF 1998:719282 CAPLUS CAPLUS COPYRIGHT 2000 ACS 130:511

TI Use of conantokins for producing analgesia or for neuroprotection

IN PA Saydoff, Joel

PΙ Cytotherapeutics, Inc., USA PCT Int. Appl., 32 pp WO 9848821 PATENT NO. KIND A2 DATE 19981105 CODEN: PIXXD2 밁 WO 1998-US8195 APPLICATION NO. Patent LA English DATE 19980424 FAN.CNT 1

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EP 979095 A2 20000216 EP 1998-71521 19980424
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, PRAI US 1997-847848 19970428
WO 1998-US8195 19980424

amt. of a conantokin to the mammal. Conantokins may be administered intrathecally or i.v. methods and devices for neuroprotection against excitotoxicity mediated at least in part by NMDA receptors A method for producing analgesia or for neuroprotection in a mammal comprising administering a therapeutically effective The invention also provides novel

L14 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2000 ACS

Abogadie, Fe C.; Cruz, Lourdes J.; Olivera, Baldomero M.; Walker, Craig; Colledge, Clark; Hillyard, David R.; Preparation and anticonvulsant, neuroprotectant, and analgesic activity of conantokin peptide derivatives 1998:87759 CAPLUS DN 128:167715 Jimenez,

Elsie; Layer, Richard T.; Zhou, Li-ming; Shen, Gregory S.; et al. PA University of Utah Research Foundation, USA; Cognetix, Inc. SO PCT Int. Appl., 122 pp. CODEN: PIXXD2 DT Patent LA English FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

MW, MX, NO, NZ, PL, PT,RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ,VN, YU, AM, AZ, BY, KG, KZ, MD, RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR,GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA,GN, ML, AU 9738861 A1 19980210 AU 1997—38861 19970721 EP 1970721 EP 1970721 EP 1970721 WO 9803541 19980129 WO 1997-US12618 19970721 MR, LS, NE, LT, LU, LV, MD, MG, MK, MN, sn, IJ, īG

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acid; X5 = peptide contg. 1-7 amino acid residues; X6 = peptide contg. 1-4 amino acid residues; X7 = peptide contg. 1-12 S amino acid residues; m, n, p, q = independently 0, 1, with the proviso that if m = 1 then n = p $(\texttt{X1}) \texttt{m-Gly-X2-X3-X4-} (\texttt{X5}) \texttt{n-} (\texttt{X6}) \texttt{p-} (\texttt{X7}) \texttt{q} \texttt{ [X1 = Lys-Pro-Gly-Arg-Lys, Lys-Pro-Gly-Arg-Lys-Asn; X2-X4 = independently any amino and the state of the state of$ MARPAT 128:167715 The present invention is directed to conantokin peptides, conantokin peptide derivs. and conantokin peptide chimeras = q = 0],referred

anticonvulsant and antiparkinsonian activities, as well as biol. stability. spermine-stimulated [3H]MK-801 binding assay in female rats. Other conantokins, including conantokin R, were tested for Cys)-cyclic disulfide and designated as conantokin R (for radiatus). as H-Gly-Glu-Gla-Gla-Val-Ala-Lys-Met-Ala-Ala-Gla-Leu-Ala-Arg-Gla-Asn-Ile-Ala-Lys-Gly-Cys-Lys-Val-Asn-Cys-Tyr-Pro-OH (Cysneuroprotective agents or analgesic agents. The sequence of sleeper-I peptide isolated from conus radiatus was identified The conantokins are usefulfor the treatment of neurol. and psychiatric disorders, such asanticonvulsant agents, collectively as conantokins, having 10-30 amino acids, including preferably two or more y-carboxyglutamic acid (Gla) residues. A variety of conantokin R derivs. And chimeras were prepd. and tested for NMDA inhibitory activity using Isolation of DNA encoding conantokins is also

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 1998:87626 CAPLUS DN
              ANSWER 6 OF 11 CAPLUS
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Use of conantokins

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McCabe, R. Tyler; Zhou, Li-ming; Layer, Richard T. Cognetix, Inc., USA; McCabe, R. Tyler; Zhou, Li-Ming; Layer, Richard T. PCT Int. Appl., 122 pp. CODEN: PIXXD2 DT Patent LA English FAN.CNT 1 PATENT NO. KIND DATE APPLICATION NO.

EP 964691 Al 19991222 EP 1997-38864 19970721
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,IE, FI PRAI US 1996-684750 19960722
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RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA,GN, ML, MR, NE, SN, TD, TG 19980129 WO 1997-US12652 19970721

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neurotoxic injury (assocd. with conditions of hypoxia, anoxia or ischemia which typically follows stroke, disorder), sleepdisorder, muscle relaxation and urinary incontinence. In addn., the conantokins are useful for treating HIV disorders (such as bipolar disorder, unipolar depression, dysthymia and seasonal effective disorder) and dystonia (movement dementia, multi-infarct dementia, Binswanger dementia and neuronal damage assocd. with uncontrolled seizures), chem. toxicity Multiple Sclerosis, Parkinson's disease, Huntington's disease, Down's Syndrome, Korsakoff's disease, schizophrenia, AIDS hypoglycemic events), neurodegeneration (assocd. With Alzheimer's disease, senile dementia, Amyotrophic Lateral Sclerosis, accident, brain or spinal cord trauma, myocardial infarct, phys. trauma, drowning, suffocation, perinatal asphyxia, or neuroprotective agents or analgesic agents. Neurol. disorders andpsychiatric disorders include epilepsy, convulsions, carboxyglutamic acid residues, for the treatment of neurol. and psychiatric disorders, such as anticonvulsant agents, chimeras, referred to collectively as conantokins, having 10-30 amino acids, including preferably two or more γ -Rigraine), anxiety, major depression, manic-depressive illness, obsessive-compulsive disorder, schizophrenia and mood such as addiction, morphine tolerance, opiate tolerance, opioid tolerance and barbiturate tolerance), pain (acute, chronic, US 1996-762377 19961206 WO 1997-US12652 19970721 The present invention is directed to the use of conantokin peptides, conantokin peptide derivs. and conantokin peptide ophthalmic indications and memory, learning or cognitive deficits. cerebrovascular

L14ANSWER 7 OF 11 CAPLUS COPYRIGHT 2000 ACS

1997 Cloning and expression of microbial thermostable phosphatase genes

L14ANSWER 8 OF 11 CAPLUS COPYRIGHT 2000 ACS

branch of plant peroxidases Sequence and RT-PCR expression analysis of two peroxidases fromArabidopsis thaliana belonging to a novel evolutionary

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                                                    CA 2165566
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                                                                                                                                                                                                                                                            Olivera, Baldomero M.; Rivier, Jean E. F.; Cruz, Lourdes J.; Abogadie, Fe; Hopkins, Chris E.; Dykert, John; Torres
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                                     CA 1994-2165566
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AU 9735197 AU 699078 US 5700778 R: AT, BE, CH, DE, DK, FR, GB, IT, LI, LU, NL, SE 5700778 A 19971223 US 19 19971120 19981119 AU 1997-35197 19970821 US 1995-458499 19950602

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acids were prepd. by solid phase peptide synthesis and tested for biol. activity. used to analyze acetylcholine receptors and in pharmaceuticals (no data). Thirteen different conotoxins contg. 16-46 amino are useful both in vivo and in assays because they specifically target particular receptors, such as the acetylcholine receptor, and ion channels. The peptides are of such length that they can be made by chem. synthesis. The peptides may be Substantially pure conotoxins are provided which inhibit synaptictransmissions at the neuromuscular junctions and which

L18 ANSWER 1 OF 4 BIOSIS COPYRIGHT 2000 BIOSIS

Contulakins: Potent, broad-spectrum analgesic conopeptides

1999

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1999 Effect of neurotensin receptor agonist contulakin-G on dopamine release from rat striatal synaptosomes. COPYRIGHT 2000 BIOSIS

In vitro and in vivo characterization of conantokin-R, a selective NMDA receptor antagonist isolated from the venom of

L18 ANSWER 4 OF 4 BIOSIS COPYRIGHT 2000 BIOSIS the fish-hunting snail Conus radiatus.
PY 2000

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ANSWER 3 OF 4 BIOSIS

Υq 1999 Contulakin-G, an O-glycosylated invertebrate neurotensin.

L19ΡI ANSWER 1 OF 5 US 5969096 19991019 USPATFULL

PΙ L19 ANSWER 2 OF 5 US 5844077 19981201 USPATFULL

ANSWER 3 OF 5 US 5700778 19971223 USPATFULL

L19 ANSWER 4 OF 5 US 5514774 19960507 USPATFULL

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